

**Notice of Allowability**

Application No.

09/854,367

Applicant(s)

ZHANG, SUKUN

Examiner

Sing P Chan

Art Unit

1734

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to an amendment filed on.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 29 October 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 2 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                    | 6 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____             |
| 3 <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. _____  | 7 <input checked="" type="checkbox"/> Examiner's Amendment/Comment                  |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
|  | 9 <input type="checkbox"/> Other  |

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**DETAILED ACTION**  
**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel Reece IV on December 4, 2003.

The application has been amended as follows:

In the Specification on page 1, line 6, insert after "Release coating for high pressure laminates" the following: "now abandoned."

***Allowable Subject Matter***

2. Claims 1-20 are allowed.

The following is an examiner's statement of reasons for allowance: The claims recite an improved method of laminating sheets of acrylic and/or polyester resins, which includes the step of pressing a resinated sheet against a sheet of paper having an easy-release surface, and the sheet of paper having at least one outer surface coated with an aqueous polymeric release coating composition produced by reacting in an emulsion polymerization reaction a mixture comprising: a) about 10.0% to 60.0% by total weight of the mixture consisting of water-dispersible stabilizing polymers and combinations thereof; b) about 40.0% to 90.0% by total weight of the mixture of vinylic monomers and

combinations thereof; c) up to about 20.0% by total weight of the mixture consisting of fatty acids having an acid number of at least 100 and combinations thereof; d) up to about 3.0% by total weight of the mixture of a chain transfer agent; e) up to about 20.0% by total weight of the mixture consisting of non-ionic surfactants, ionic surfactants, and combinations thereof; f) a catalytic amount of at least one polymerization initiator; and g) the balance of the mixture being water. Prawdzik et al (U.S. 4,689,102) discloses a method of forming a conventional high pressure laminate with several layers of core stock impregnated with thermosetting resin, decorative sheet, and release sheet with a release coating inserted between the sheet assemblies to ensure separation of the assemblies from each other. (Col 3, lines 50-62, Col 4, lines 18-41, and Col 6, lines 30-41) Prawdzik et al does not disclose the composition of the release coating. Esser (U.S. 5,498,659) discloses a composition for coating such as floor polishes, paints, adhesive, and finishes and treatments for paper such as release coating depending on the amount of ingredients used. (Col 5, lines 16-59) The composition includes two polymeric ingredients with an acid number of 50 to 150, (Col 7, lines 13-37) initiator, (Col 8, lines 1-13) combination of surfactants, which includes fatty acid, (Col 8, lines 15-64) aqueous carrier, and chain transfer agent. (Col 8, lines 1-14) Esser is silent as to the amount of each ingredients are used. Shah et al (U.S. 6,429,247) discloses a coating composition for functional paper coating, (Col 1, lines 27-33) which is considered to include release coating. The composition includes 5% to 90% by weight of a rosin-fatty acid vinylic polymer reactant form by combining 20% to 60% by weight of fatty acid rosin mixture with 10% to 90% by weight of fatty acid and is considered to has

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an acid number above 100 and 10% to 90% by weight of rosin, with a monomer mixture form by combining 15% to 45% of monomer mixture of acrylic acid, methacrylic acid, fumaric acid, maleic anhydride, 55% to 85% by weight of monomer mixture of vinylic monomers, 4% by weight of chain transfer agent, and 0.5% to 5% by weight of polymerization initiator; 10% to 95% by weight of vinylic monomers, 0.5% to 4% by weight of polymerization initiator, up to 4% by weight of chain transfer agent, up to 4% by weight of surfactant and distilled water. (Col 6, line 59 to Col 7, line 39 and Col 12, lines 37-41) However, Shah et al does not disclose the composition is a release coating and is not intended as a release coating with the addition of rosin resin, which increase adhesion. A search of the prior art of record did not disclose reference or references with the recited features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sing P Chan whose telephone number is 703-305-3175, after December 25, 2003 the examiner's telephone number will change to (571) 272-1225. The examiner can normally be reached on Monday-Friday 7:30AM-11:15AM and 12:15PM-4:00PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on 703-308-3853, after December 25, 2003 the examiner's supervisor telephone number will change to (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

*Chen Jing Bo*  
spc

*Richard Crispino*  
RICHARD CRISPINO  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700